

Synthesis and characterization of highly photoresponsive fullereryl dyads with a close chromophore antenna–C₆₀ contact and effective photodynamic potential

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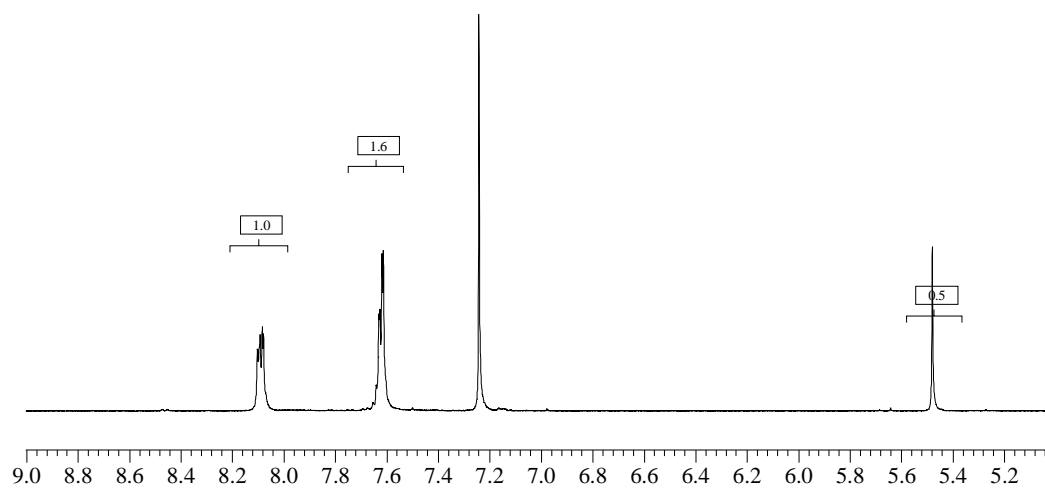


Fig. S1. ^1H NMR spectrum of $\text{C}_{60}(>\text{DCE-Ph})$ **2**.

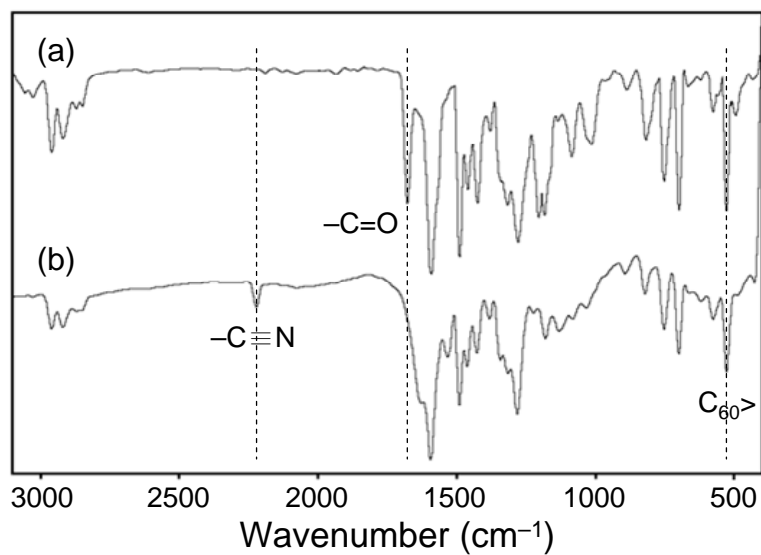


Fig. S2. Infrared spectra of (a) C₆₀(>DPAF-C₉) and (b) C₆₀(>CPAF-C₉) showing a characteristic keto functional group change to a cyano group containing DCE.

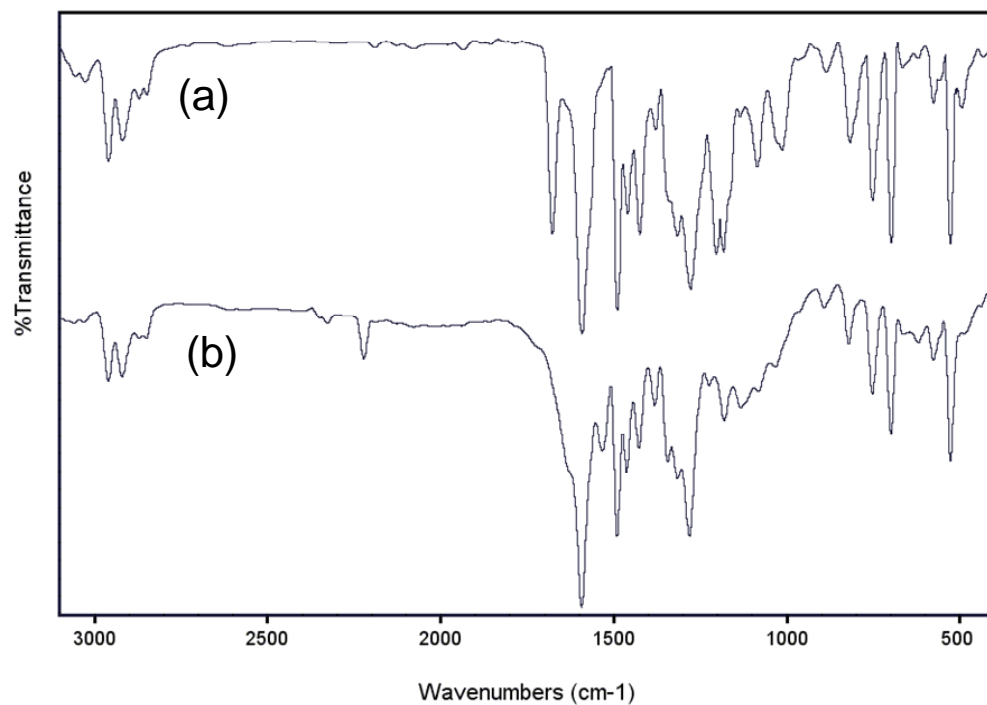


Fig. S3. Infrared spectra of (a) C₆₀(>DPAF-C₂) and (b) C₆₀(>CPAF-C₂) showing a characteristic keto functional group change to a cyano group containing DCE for comparison.

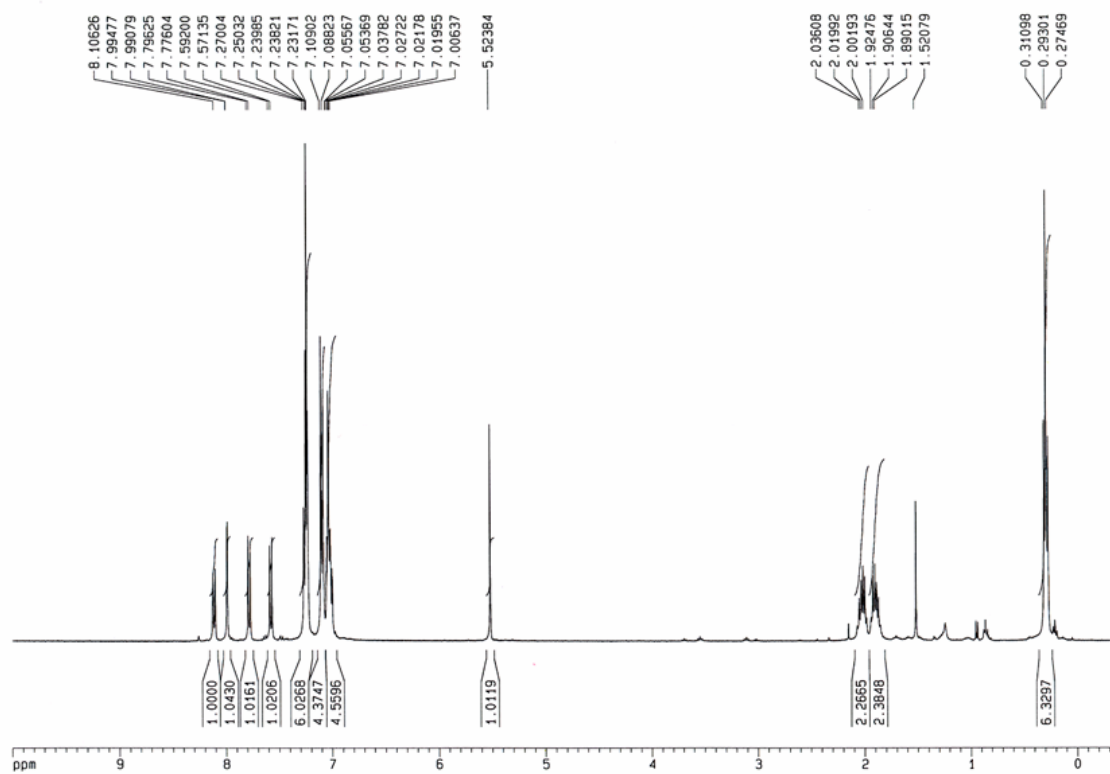


Fig. S4. ¹H NMR spectrum of C₆₀(>CPAF-C₂).

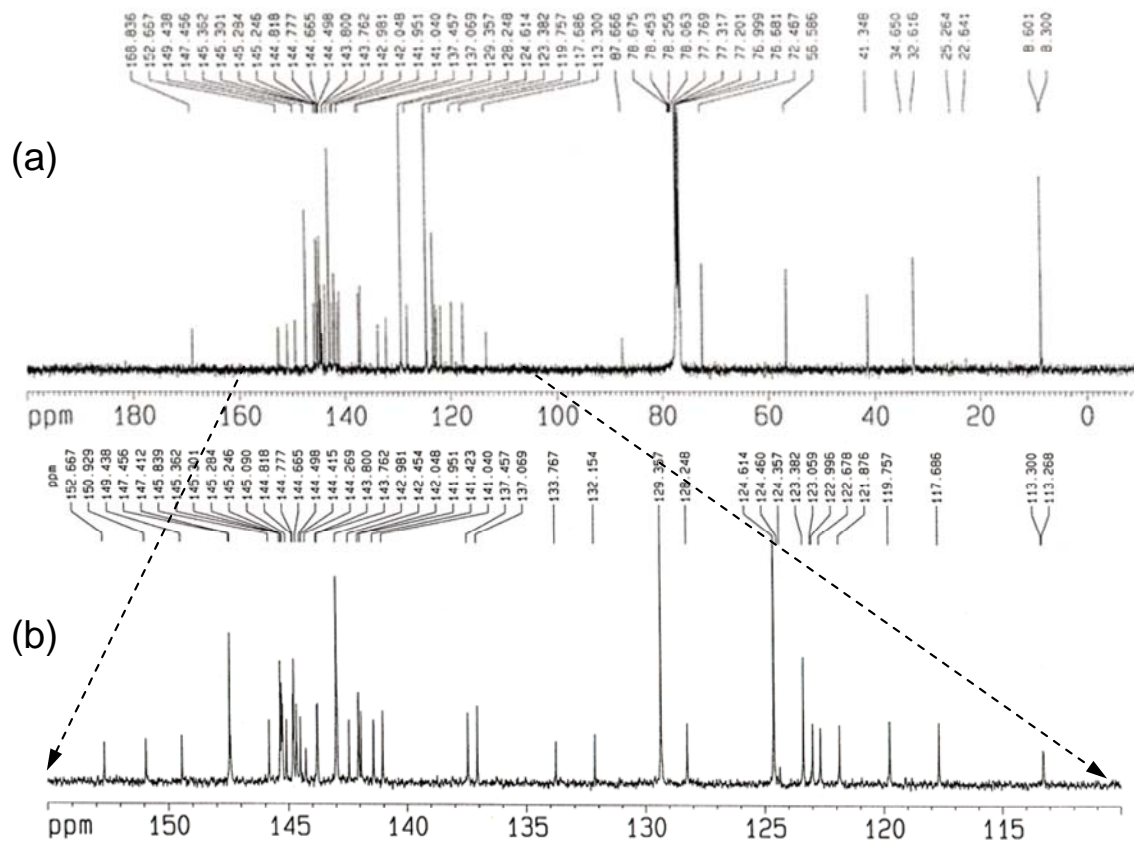


Fig. S5. ^{13}C NMR spectra of (a) $\text{C}_{60}(>\text{CPAF-C}_2)$ and (b) expanded aromatic carbon peaks region.

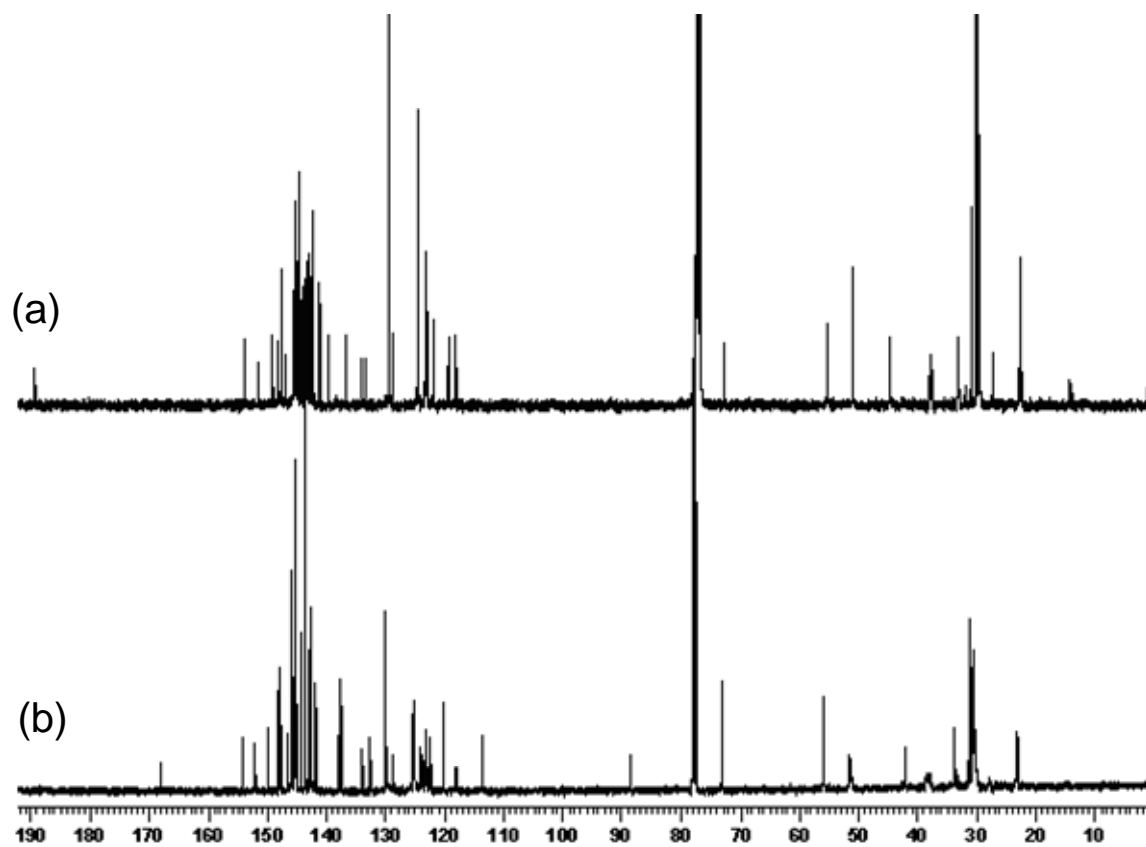


Fig. S6. ^{13}C NMR spectra of (a) $\text{C}_{60}(>\text{DPAF-C}_9)$ **7-C₉** and (b) $\text{C}_{60}(>\text{CPAF-C}_9)$ **8-C₉**.

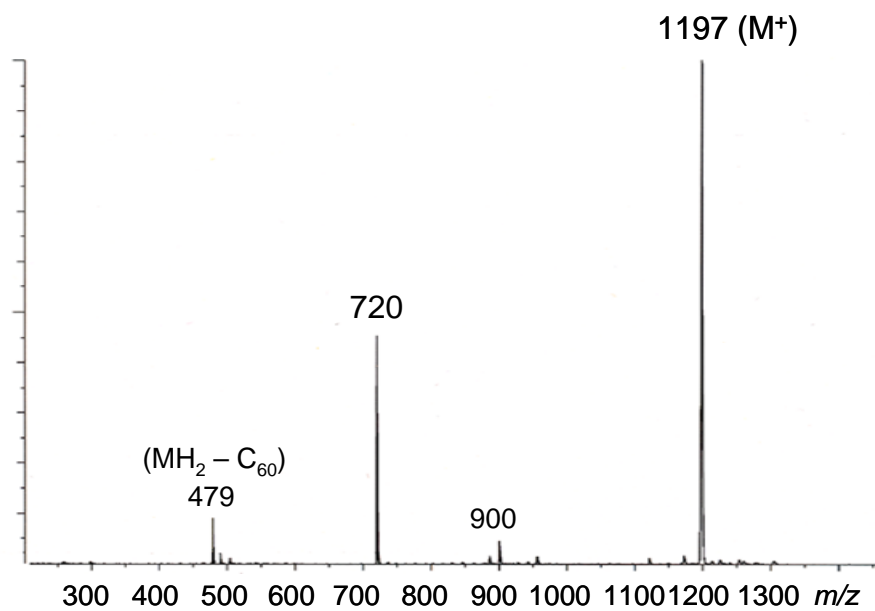


Fig. S7. Negative ion desorption chemical ionization mass spectrum (DCI-MS) of $C_{60}(>CPAF-C_2)$.